

THE CLAIMS ARE:

1. A connector for use with a socket such as used in a motor vehicle for supplying electrical power to an appliance, the connector having an inner end for placement in the socket and an outer end remote from the socket, such connector
5 comprising:

an expander having a passageway extending through it;

a collet having an opening through it mounted on the expander, the expander being adapted to slide within the collet, the collet having a plurality of slots extending from the outer end toward the inner end;

10 a flange mounted at the inner end of the connector in contact with the collet;

a shaft secured to the flange mounted in the passageway of the expander, the shaft and the expander having interacting means to cause the expander to move along the shaft when the expander is turned; and

15 a positive contact mounted on the shaft at the inner end and a negative contact mounted on the collet.

2. A connector according to claim 1 wherein the expander includes a turn collar located toward the outer end.

3. A connector according to claim 1 wherein the interlocking means is threads
20 on the passageway of the expander and threads on the shaft.

4. A connector according to claim 1 wherein the flange has ridges which engage the slots in the collet.

5. A connector according to claim 1 wherein the expander has a turn collar toward the outer end and a tapered section toward the inner end with a cylindrical section between the tapered section and the turn collar.

6. A connector according to claim 1 wherein the opening through the collet is cylindrical and is substantially smaller toward the inner end than toward the outer end and the opening between the inner end and the outer end is tapered.

7. A connector for use with a socket such as used in a motor vehicle for supplying electrical power to an appliance, the connector having an inner end for placement in the socket and an outer end remote from the socket, such connector comprising:

an expander having a passageway extending through it, the passageway having a circular cross section with a coarse thread in it toward and within the tapered section;

a collet mounted on the expander having a cylindrical exterior and having an opening extending through it, the opening being cylindrical, the opening toward the inner end being substantially smaller than the opening toward the outer end and with the opening between the inner end and the outer end being tapered, the expander being adapted to slide within the collet, the collet having a plurality of slots extending from the outer end part way toward the inner end;

a flange mounted at the inner end of the connector in contact with the collet;

a shaft mounted in the passageway of the expander and having threads engaging the threads in the passageway and, the shaft having a channel located

through it; and

a positive contact mounted at the inner end of the shaft and a negative contact on the collet.

5 8. A connector according to claim 7 wherein the flange has ridges which engage the slots in the collet.

9. A connector according to claim 7 wherein the expander has a turn collar toward the outer end and a tapered section toward the inner end with a cylindrical section between the tapered section and the turn collar.

10 10. A connector for use with a socket such as used in a motor vehicle for supplying electrical power to an appliance, the connector having an inner end for placement in the socket and an outer end remote from the socket, such connector comprising:

15 an expander having a turn collar toward the outer end and a tapered section toward the inner end with a cylindrical section between the tapered section and the turn collar, the expander having a passageway extending through it with a circular cross section with a thread in it toward and within the tapered section;

20 a collet mounted on the expander having a cylindrical exterior and having an opening extending through it, the opening being cylindrical and being substantially smaller toward the inner end than the opening toward the outer end and with the opening between the inner end and the outer end being tapered, the expanded being adapted to slide within the collet, the collet having a plurality of slots extending from the outer end part way toward the inner end;

a flange located at the inner end of the connector in contact with the

collet;

a shaft mounted in the passageway of the expander and having threads engaging the threads in the passageway and being rigidly secured to the flange, the shaft having a channel located concentrically through it; and

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a positive contact mounted on the inner end of the shaft and a negative contact on the exterior of the collet.

11. A connector according to claim 10 wherein the flange has ridges which engage the slots in the collet.